



DICTOGRAPH MOBILE COMMUNICATIONS LTD.

Head Office: 335 King Street West, Toronto, Ontario M5V 1J5 - (416) 364-8142

Sales Office: 89 Glen Cameron Road, Thornhill, Ontario L3T 1N8 - (416) 881-0074

CENTURY II OPERATING INSTRUCTIONS

FOR BOTH THE IN-CAR AND IN-CAR WALKAWAY TELEPHONES

Depress "On" button once. The "On" light illuminates. In the car, the unit may remain on for several days with only minimal battery drain and may be left in this standby position for the receiving of calls. If using the Century II Convertible system, the unit may be left in the standby position, for the receiving of calls, for approximately 1½ days, providing the system has been fully charged. (See battery section.)

TO RECEIVE A CALL

There are 13 channels available in Canada. Your Century II mobile telephone has all 13. This ensures that the system can be used anywhere in Canada. After turning the light on, the visual display will show the inscan operation, (red circulating channel light), providing that the dim button is in the "Up" position. This gives the system the ability to receive a call on any channel. Since there are peak periods of usage during the day, and since many of the calling channels may be in use, it is important that the operator is able to call you on any channel. With this feature, a greater percentage of your calls will be received.

From time to time, the scanner will stop on a channel for a few seconds. The system, at this time, is detecting a call from the telephone system going out over the airwaves to a car. If the digital sequence of the numbers is incorrect, the scanner will resume operation, however if the digital sequence is correct and the call is for your car, there will be a beeping for approximately 5 seconds. The call light will flash. Pick up the receiver (call light will go off) and transmit, stating your telephone number first, so that the operator can put the call through. Always act promptly as the operator will hold the channel open only for a short period of time.

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When out of the car, depress the horn button (light will illuminate). The horn will honk when a call comes in, but not promptly, for the above reason.

TO TRANSMIT

Normally, the best mode of operation is in the duplex mode. This will allow normal two-way conversations without the normal voice breakup as in two-way radios, where one must push to talk and release to listen. Depress the duplex button so that the red light is visible. Pick up the handset and depress the red button on the side in order to transmit to the operator (red transmit light illuminates) after having received a call.

Should the sound quality be poor, in that it is hard to hear the person calling in, then release the duplex button (now being the simplex mode) and then push to talk and release to listen. At this point, the quality of the calling party will most likely improve. Reason: the car is in a fringe transmission area, from the telephone company's mobile tower and there is an interaction of radio signals caused by your strong transmission blocking out the incoming signals. The calling party may hear you clearly but it may be difficult to hear the calling party. Of course, another channel may be chosen, if desired.

TO PLACE A CALL

There are two ways to place a call:

- (a) Automatic Outscan - leave the handset on the control head and simply depress the outscan button. The unit will then automatically search for a channel that is completely free, at which time it will automatically transmit a signal to the operator, and advise you, through the four second beeping signal, that the operator will be coming on the line. Pick up the handset and begin to transmit. When the operator answers, give her your car number and point of registry first, and then the number to be called.
- (b) Manually - lift the receiver; push the outscan (O/S) button to advance the channel display one channel at a time. After finding a free channel (no noise), or one about to become free, then transmit as explained above.

While in the duplex mode, every forty seconds there will be a buzz. This is a timer to help time the calls and give you a chance to say goodbye before your minute is up. It operates every 40 seconds from the time the button is depressed. Should you wish to continue the conversation, depress the duplex button once again for another uninterrupted 40 seconds. At certain peak periods during the day, when many users are trying to place calls at the same time, normally the outscan mode will be able to find a channel within a relatively quick period of time. However, should this not occur, then it may be desirable to use the manual system, in order to find a conversation on the network that is just ending.

TO PROGRAM AUTOMATIC OUTSCAN FOR YOUR AREA

There are 13 possible channels in Canada, and there are 13 selection buttons on the control head. In order to use the automatic outscan effectively and efficiently, depress the buttons for the available channels in your location (this information can be found in Bell channel book or by depressing all channel buttons.) Once an operator becomes available, ask for all channels in the area and adjust your set accordingly. The Century II series will now, upon depressing the automatic outscan button, search only for a free channel in that area. Note that, should all channels be in use, longer than 40 seconds, the outgoing scan mode will change to regular inscan and it will be necessary to depress the O/S button once again in order to continue automatic channel search.

TO ADJUST THE HANDSET VOLUME

Depending on the noise level in the car, it may be desirable to increase or decrease the volume in the handset. To do this, simply lift the handset from the control head and adjust the volume control dial on the handset mount. Counter clockwise increases, and clockwise decreases, the volume.

CONVERTING THE CENTURY II SERIES TO PORTABLE USE

Lift the control head from the mounting bracket. Note that the combination of the lock is the same as the last three digits of the serial number located on the back of the Attache. To place the head in the Attache case, remove the car cable from the Attache case through the opening in the back. Set the control head on to the mounting bracket in the Attache and flip the antenna switch to the right position for portable use (the left position is for the in-car antenna use).

HELPFUL HINTS

Your Century II Attache has been designed to operate with ease of operation and maximum effectiveness. While driving your car, a charge is being maintained in the batteries. Note that the battery light is on, whether the machine is turned on or off. This is an indicator light and remains on as long as there is a charge in the Attache.

To get an idea of how much power remains in the Attache, transmit for a second and note the deflection in brilliance of the indicator lamp. If there is no deflection, your batteries have an excellent charge. The greater the deflection, the lower the charge. To recharge unit, place back in car. The system charges while driving. For those people who do a lot of travelling away from their car, for long periods of time, an optional battery charger is available. Simply plug it into the charging jack at the back of the case for the required amount of charge. A slight deflection in battery indicator - charge up to 3-4 hours; medium deflection - charge for 5-6 hours; considerable deflection - charge for 8-10 hours. If battery light goes right out, the battery may be charged up to 15 hours. There is circuit protection for overcharging so these figures are based on minimum requirement to bring the batteries to full charge. If the system is to be used to a greater extent in portable operation, it may be a good idea to use the duplex operation only to a minimal degree, as power drain while transmitting and receiving is greater than using transmission power while talking only. This will help to extend the battery life, between charges, for almost twice the time. Never allow the batteries to go completely dead as this can have a detrimental effect, however the C-II portable can lose all the charge through complete non-usage in time.

Your Century II series mobile telephone has a built-in heater to maintain crystal stability in very cold weather. If planning to use the mobile telephone first thing in the morning, you may wish to leave your system in the standby position overnight. This is not a necessary thing to do, but there is a possibility that first thing in the morning, your radio transmission may, or may not, be as good as usual until the system is warmed up.

Cold weather affects discharged batteries. By all means, it is not necessary to remove your Attache case telephone on a cold night as long as the batteries have been charged and/or you have been driving with the system installed in your car. However, it is not advisable to leave your Attache telephone in the front seat of your car, if the batteries are low. Your batteries will last for years by taking care of them - keep them charged!

The aerial system in the briefcase, although it is not as efficient as an aerial on the roof of the car or trunk, does an excellent job, however it is important to note that using this system as an Attache, on the front seat of the car, may affect the quality of transmission, depending on:

- (a) the type of car being driven
- (b) the distance from telephone tower
- (c) the direction the Attache is pointing, in relation to the tower location

If there is a passenger in the car, utilize him to add greater height, by placing the Attache on his lap. Ensure the right hand side of the Attache case lid is pointing out the window. This will greatly enhance your transmission and reception. If a passenger is not available, point the Attache in the same direction regardless, as the aerial is basically directional and, since the car is all metal, it is important that the Attache's aerial be pointing out the window. For other than in-car operation, the pointing of the Attache is not usually required, except when in fringe areas or when in certain buildings surrounded by steel and concrete.

The dimmer button is designed for basically two reasons:

1. To turn the flashing lights off for night driving.
2. To ensure that less attention is brought to your unattended car telephone in the parked vehicle.

When leaving the car unattended in areas or cities that may be subject to vandalism, remove your control head from the mounting bracket and store it in the trunk (insurance is available on your car phone for only a few dollars per year.)

The Mark Idle system is used by the telephone company in Alberta. It is not necessary to use the outscan feature as the scanner locks on the first available channel. Pick up the handset and transmit to the operator. If the scanner is circulating, then all channels are busy. Wait for the scanner to stop, then pick up the handset and transmit. Note that a steady busy light, when the scanner is locked on one channel, now becomes an indicator of a free channel.

THE FINEST PHONE SYSTEM

The Century II series is the finest on the market. It has been designed with you in mind. It has the finest features, the finest power package, the finest quality of reproduction of sound. You will enjoy using your new Century II series mobile telephone. Should you have any questions, do not hesitate to contact us for expert service or help.